

## Monday, August 11

	Auditorium	111-112-113	114-115-116	211-212	213	214	215-216	205	207
9:00-10:20	WI WS1	BIH SPS1	BIH SPS2	IAT SPS1	AMT WS1	WI WS2	Tutorial 1 R. Girardi	Tutorial 2 M. Druzdzel	Tutorial 3 J. Velasquez
Coffee break									
10:50-12:30	WI WS1	BIH SPS1	BIH SPS2	IAT SPS1	AMT WS1	AMT WS2	Tutorial 1 R. Girardi	Tutorial 2 M. Druzdzel	Tutorial 3 J. Velasquez
Lunch									
13:30-14:30	Keynote J.F. Sowa								
14:30-15:30	Keynote K. Friston								
Coffee break									
16:00-18:20	Panel Human Brain Project	WI SPS1	WI WS3	IAT WS1			WI WS4	AMT SPS1	AMT SPS2
From 19:00	Welcome reception and concert at the F. Chopin University of Music								

## Tuesday, August 12

	Auditorium	111-112-113	114-115-116	211-212	213	214	215-216	205	207
9:00-9:20	Opening								
9:20-10:20	Keynote H. Skarżyński								
Coffee break									
10:50-12:30	BIH SPS3	WI RS1	IAT RS1	AMT RS1	WI RS2	AMT SPS3	WI SPS2	BIH RS1	BIH SPS4
Lunch									
13:30-14:30	Keynote S. Decker								
14:30-15:30	Keynote S. Miyamoto								
Coffee break									
16:00-18:20	Panel Web@25	IAT RS2	IAT RS3	AMT RS2			WI SPS2	WI SPS3	BIH SPS4
18:30-20:00	WIC 2014 reception in the Old Library Building								

## Wednesday, August 13

	Auditorium	111-112-113	114-115-116	211-212	213	214	215-216	205	207
9:00-10:20	Tutorial 4 A. Holzinger	WI RS3A	IAT RS4	WI RS4A	WI RS5A	BIH SPS5	WI RS6A	Tutorial 5 A. Czyżewski	Tutorial 6 M. Rafalak
Coffee break									
10:50-12:30	Tutorial 4 A. Holzinger	WI RS7A	IAT RS5	WI RS8A	BIH SPS6	BIH SPS7	BIH RS2	Tutorial 5 A. Czyżewski	Tutorial 6 M. Rafalak
Lunch									
13:30-14:30	Keynote A. C.-C. Yao								
14:30-15:30	Keynote Yi Pan								
Coffee break									
16:00-18:00	Panel Science Communications	WI RS9	IAT RS6	IAT RS7			AMT RS3	BIH RS3	BIH RS4
From 19:00	Banquet at the Main Building of the Warsaw University of Technology								

## Thursday, August 14

	Auditorium	111-112-113	114-115-116	211-212-213	214-215-216	205	207	308
9:00-10:20	Tutorial 7 W. Nowiński	WI RS10A	IAT SPS2	WI RS11A	WI RS4B	AMT RS4	BIH SPS8	WI RS5B
Coffee break								
10:50-12:30	Tutorial 7 W. Nowiński	WI RS7B	IAT SPS2	WI RS8B	WI RS6B	BIH RS5	BIH SPS8	PSSI Meeting
Lunch								
13:30-14:30	Keynote B. Kowalski							
14:30-15:30	Keynote A. Szałas							
Coffee break								
16:00-18:00	Panel AI in Poland & Worldwide	WI RS10B	IAT RS8	WI RS11B	AMT RS5	WI RS3B	BIH RS6	

Monday, 11.08 - WI

WI WS1: WPRSM - The Third International Workshop on Web Personalization, Recommender Systems and Social Media

Chair: Marek Reformat

Part 1 - Auditorium; 9:00-10:20

Wr261	<i>Improving Collaborative Filtering based Recommenders using Topic Modelling</i> <b>Jobin Wilson, Santanu Chaudhury, and Brejesh Lall</b>
S5203	<i>Combining Query Terms Extension and Weight Correlative for Expert Finding</i> <b>Chen-Tao Chuang, Kai-Hsiang Yang, Jenq-Haur Wang, and Yu-Li Lin</b>
S5206	<i>Recommender System for Crowdsourcing Platform Witology</i> <b>Dmitry I. Ignatov, Alexandra Kaminskaya, Natalia Konstantinova, and Andrey Konstantinov</b>
S5208	<i>Feature Selection and Term Weighting</i> <b>Abdulmohsen Algarni and Nasser Tairan</b>

Part 2 - Auditorium; 10:50 – 12:30

S5202	<i>Hybrid Algorithm for Precise Recommendation from Almost Infinite Set of Websites</i> <b>Dominik Deja, Radosław Nielek, Xin Liu, and Adam Wierzbicki</b>
Wr264	<i>Dynamic Learning of Keyword-Based Preferences for News Recommendation</i> <b>Antonio Moreno, Lucas Marin, David Isern, and David Perelló</b>
Wr380	<i>Link Prediction Based on Multi-steps Resource Allocation</i> <b>Zhifeng Wu and Yaohui Li</b>
Wr422	<i>Fuzzy Subjective Sentiment Phrases: A Context Sensitive and Self-Maintainable Sentiment Lexicon</i> <b>Seyed Ali Bahrainian, Marcus Liwicki, and Andreas Dengel</b>
Wr441	<i>WIKIF: Applying Wikipedia to Document Ranking</i> <b>Suyeon Lee, Seongchan Kim, Chihoon Jung, Jae-Gil Lee and Mun Y. Yi</b>

Monday, 11.08 - WI

WI WS2: NLPOE - 7<sup>th</sup> International Workshop on Natural Language Processing and Ontology Engineering

Chair: Peng Jin

Room 214; 9:00-10:20

S9202	<i>Mapping Word Senses of Middle Ancient Chinese to WordNet</i> <b>Yingjie Zhang, Bin Li, Xiaoyu Wang, Xueyang Liu, and Jiajun Chen</b>
S9203	<i>Application of TextRank Algorithm for Credibility Assessment</i> <b>Bartłomiej Balcerzak, Wojciech Jaworski, and Adam Wierzbicki</b>
S9204	<i>Integrating Pinyin to Improve Spelling Errors Detection for Chinese Language</i> <b>Peng Jin, Xingyuan Chen, Zhaoyi Guo, and Pengyuan Liu</b>
S9205	<i>Exploratory Study of Relationships Among Statement Credibility, Context, and Semantic Similarity</i> <b>Emilia Rejmund, Wojciech Jaworski, and Adam Wierzbicki</b>

WI WS3: WOSWI - Second International Workshop on Social Web Intelligence

Chair: Lipika Dey

Room 114-115-116; 16:00-18:20

S7203	<i>On the Effectiveness of Emergent Task Allocation of Virtual Programmer Teams</i> <b>Oskar Jarczyk, Błażej Gruszka, Leszek Bukowski, and Adam Wierzbicki</b>
Wr295	<i>Identification of Opinion Leaders Based on User Clustering and Sentiment Analysis</i> <b>Jiangjiao Duan, Jianping Zeng, and Banghui Luo</b>
Wr418	<i>Tweet Sentiment Analytics with Context Sensitive Tone-Word Lexicon</i> <b>Amal Babour and Javed I. Khan</b>
Wr347	<i>Indirect Keyword Recommendation</i> <b>André Sabino, Armanda Rodrigues, Miguel Goulão, and João Gouveia</b>
Wr446	<i>Visualizing Indirect Relationships</i> <b>André Sabino, João Gouveia, and Armanda Rodrigues</b>
Wr448	<i>Online Social Networks - Differences between Web, Mobile, and App Version</i> <b>Petra Gröber</b>

Monday, 11.08 - WI

WI WS4: KDO - International Workshop on Knowledge Discovery in Ontologies

Chair: Rosario Girardi and Renata Vieira

Room 215-216; 16:00-18:20

S4203	<i>An Ontology for Guiding Performance Testing</i> <b>Artur Freitas and Renata Vieira</b>
S4204	<i>Ontology as a Base for State Space of Expert Systems</i> <b>Boris Bučko, Michal Joštiak, Vladimír Smataník, and Katarína Záborská</b>
S4205	<i>Learning of Legal Ontology Supporting the User Queries Satisfaction</i> <b>Imen Bouaziz Mezghanni and Faiez Gargouri</b>
S4207	<i>Multi-agent Based System for Multilingual Ontologies Maintenance</i> <b>Saeed Albukhitan and Tarek Helmy</b>
Wr346	<i>An Approach to Join Ontologies and their Reuse in the Construction of Application Ontologies</i> <b>Phillipi Silva and Rosario Girardi</b>
Wr351	<i>Interpreting Discovered Patterns in terms of Ontology Concepts</i> <b>Md Abul Bashar, Yuefeng Li, Yan Shen, and Mubarak Albathan</b>
Wr360	<i>Detecting and Correlating Video-based Event Patterns: An Ontology driven Approach</i> <b>Nisha Pahal, Santanu Chaudhury, Vishwanath Gaur, Brejesh Lall, and Anupama Mallik</b>

Monday, 11.08 - WI

WI SPS1: Special session on Big Data Analytics

Chair: Xiaolong Jin

Room 111-112-113; 16:00-18:20

SG205	<i>Incremental Multi-manifold Out-of-Sample Data Prediction</i> <b>Zhongxin Liu, Wenmin Wang, and Ronggang Wang</b>
SG206	<i>Uncertainty Reasoning Based Formal Framework for Big Video Data Understanding</i> <b>Shuwei Chen, Kathy Clawson, Min Jing, Jun Liu, Hui Wang, and Bryan Scotney</b>
SG207	<i>Protecting Data Privacy from Being Inferred from High Dimensional Correlated Data</i> <b>Huafeng Ba, Xiaoming Gao, Xiaofeng Zhang, and Zhenyu He</b>
SG208	<i>Privacy-Preserving WebID Analytics on the Decentralized Policy-Aware Social Web</i> <b>Yuh-Jong Hu</b>
SG209	<i>Identifying Interaction Groups in Social Network Using a Game-Theoretic Approach</i> <b>Jianye Yu, Yuanzhuo Wang, Xiaolong Jin, and Xueqi Cheng</b>
SG210	<i>Enhanced Factored Sequence Kernel for Sentiment Classification</i> <b>Luis Trindade, Hui Wang, William Blackburn, and Philip S. Taylor</b>
SG211	<i>Framework for Analyzing Semantic Change of Words across Time</i> <b>Adam Jatowt and Kevin Duh</b>



Monday, 11.08 - IAT

IAT WS1: AS-BPM - International Workshop on Agent Systems in Business  
Process Management

Chair: Werner Schmidt

Room 211-212; 16:00-18:20

S3201	<i>Local-Global Agent Failover Based on Organizational Models</i> <b>Alexander Lawall, Thomas Schaller, and Dominik Reichelt</b>
S3202	<i>Agent-based Management for Intermediary Service Provider</i> <b>Anton Ivaschenko, Ilya Syusin, and Anton Fedosov</b>
S3204	<i>Propagation of Agents to Trusted Organizations</i> <b>Alexander Lawall, Dominik Reichelt, and Thomas Schaller</b>
S3205	<i>Generating Subject-Oriented Process Models from Ad-Hoc Interactions between Agents</i> <b>Udo Kannengiesser, Markus Radmayr, Richard Heininger, and Nils Meyer</b>
S3206	<i>Multi-Agent Software for Knowledge Management in E-Health Systems</i> <b>Anna Sołtysik-Piorunkiewicz</b>
S3207	<i>Subjects, Agents and Multi-Agent Systems</i> <b>Albert Fleischmann, Werner Schmidt, and Christian Stary</b>
S3208	<i>Organizational Activities for KAIZEN or the Worse: A Unified Agent-Based Model</i> <b>Takao Terano and Tomomi Kobayashi</b>

Monday, 11.08 - IAT

IAT SPS1: Special session on Agent-Based Simulation Supporting Decision Making

Chair: Jarosław Koźlak

Part 1 – Room 211-212; 9:00-10:20

SF204	Application of Agent Simulation to the Support of Decision Making Process <b>Jarosław Koźlak and Małgorzata Żabińska</b>
SF202	<i>An Improvisational Decision- Making Agent Based on Non-Axiomatic Reasoning System</i> <b>Nady Slam, WenJun Wang, and Pei Wang</b>
SF203	<i>Agent-Oriented Computing Platform in Python</i> <b>Maciej Kaziród, Wojciech Korczyński, and Aleksander Byrski</b>
Ir206	<i>Intelligent Regulation Support System for Multimodal Traffic</i> <b>Ben Rabah Nourhene, Slim Hammadi, and Cristian Tahon</b>

Part 2 – Room 211-212; 10:50 – 12:30

Ir215	<i>Preference Based Automated Negotiation for Service Procurement in Multi-Agent Systems</i> <b>Khalid Mansour and Ryszard Kowalczyk</b>
Ir259	<i>Smart Cloud Marketplace - Agent-based Platform for Trading Cloud Services</i> <b>Sergei Chichin, Mohan Baruwal Chhetri, Quoc Bao Vo, Ryszard Kowalczyk, and Marcin Stepniak</b>
Ir261	<i>Design and Evaluation of Automatic Agents for Stock Market Intraday Trading</i> <b>Eduardo Jabbur, Everton Silva, Douglas Castilho, Adriano Pereira, and Humberto Brandão</b>
Ir287	<i>Modelling Multi-Stakeholder Systems: A Case Study</i> <b>Michel Oey, Zülküf Genç, Amineh Ghorbani, Huib Aldewereld, Frances Brazier, Reyhan Aydoğan, Catholijn M. Jonker, Reinier Timmer, and Niek Wijngaards</b>
Ir300	<i>Petro: a Multi-agent Model of Historical Warfare</i> <b>Marcin Waniek</b>

Monday, 11.08 - BIH

BIH SPS1: Special session on Neuroimaging Data Processing Strategies

Chair: Piotr Bogorodzki and Richard Frackowiak

Part 1 – Room 111-112-113; 9:00-10:20

BE1	<i>Medical Informatics in HBP</i> <b>Richard Frackowiak</b>
BE2	<i>Creating Feature Vectors from Structural and Functional Image Data - Data Mining in Neuroimaging.</i> <b>Piotr Bogorodzki</b>
BE3	<i>Medical Data Management Challenges in the Human Brain Project</i> <b>Thomas Heinis</b>

Part 2 - Room 111-112-113; 10:50 – 12:30

BE4	<i>Data Fusion Models and Biological Signature of Diseases for the Human Brain Project</i> <b>Ferath Kherif</b>
BE5	<i>Thalamic Resting State Functional Connectivity in Patients with Mild Traumatic Brain Injury</i> <b>Jadwiga Rogowska</b>
SB5202	<i>Dealing with Heterogeneous Multi-site Neuroimaging Data Sets: A Study on Discrimination of Children Dyslexia</i> <b>Piotr Płoński, Wojciech Gradkowski, Artur Marchewka, Katarzyna Jednoróg, and Piotr Bogorodzki</b>
B234	<i>Practice and Task Experience Change the Gradient Organization in the Resting Brain</i> <b>Jun Zhou, Haiyan Zhou, Chuan Li, JiaLiang Guo, Xiaojing Yang, Zhoujun Long, Yulin Qin, and Ning Zhong</b>
B214	<i>K-Surfer: A KNIME extension for the management and analysis of human brain MRI FreeSurfer/FSL Data</i> <b>Alessia Sarica, Giuseppe Di Fatta, and Mario Cannataro</b>

Monday, 11.08 - BIH

BIH SPS2: Special session on Panomics of Diseases and Pathogens

Chair: Jerzy Tiuryn and Limsoon Wong

Part 1 - Room 114-115-116; 9:00-10:20

SB7203	<b>Invited talk (40 minutes):</b> <i>Integration of Mapping Genome-Wide of Stat3 Binding and Epigenetic Modifications with Transcriptome Reveals Novel Target Genes of Stat3 in Glioma Cells</i> <b>Bożena Kamińska, Marcin Kruczyk, Piotr Przanowski, Jakub Mieczkowski, Olla Wallerman, Claes Wadelius, Jan Komorowski, and Michał Dąbrowski</b>
SB7201	<i>Computational Modeling of Sphingolipid Metabolism in Cancer and Neurodegeneration</i> <b>Weronika Wronowska, Agata Chężyńska, and Anna Gambin</b>
SB7202	<i>A New Statistical Test for Detection of Drug Resistance-Associated Mutations in Bacteria</i> <b>Michał Woźniak, Limsoon Wong, and Jerzy Tiuryn</b>

Part 2 - Room 114-115-116; 10:50 – 12:30

SB7206	<b>Invited talk (40 minutes):</b> <i>Molecular Networks in a Systems Approach to Disease</i> <b>Janusz Dutkowski</b>
SB7204	<i>Multi-Parameter Sensitivity Analysis Based on the Information Theoretic Measure on the Example of the Ceramide Metabolism Model</i> <b>Agata Chężyńska, Weronika Wronowska, and Anna Gambin</b>
SB7205	<i>Deluge of Genomic Data: Challenges, Solutions</i> <b>Sebastian Deorowicz</b>
SB7207	<i>Panomics Contributions to Understanding Autism Spectrum Disorders</i> <b>Anna Gogolińska and Wiesław Nowak</b>

Monday, 11.08 - AMT

AMT WS1: HAAI - 8<sup>th</sup> International Workshop on Human Aspects in Ambient Intelligence

Chair: Tibor Bosse

Part 1 - Room 213; 9:00-10:20

SA1201	<i>Using Process-Oriented Interfaces for Solving the Automation Paradox in Highly Automated Navy Vessels</i> <b>Jurriaan van Diggelen, Wilfried Post, Marleen Rakhorst, Rinus Plasmeijer, and Wessel van Staal</b>
SA1203	<i>Multi-agent Solution for Adaptive Data Analysis in Sensor Networks at the Intelligent Hospital Ward</i> <b>Anton Ivaschenko and Anton Minaev</b>
SA1204	<i>The Challenges behind Independent Living Support Systems</i> <b>Giampaolo Bella, Pekka Jäppinen, and Jussi Laakkonen</b>
SA1205	<i>Exploring Patterns as a Framework for Embedding Consent Mechanisms in Human-Agent Collectives</i> <b>Stuart Moran, Ewa Luger, and Tom Rodden</b>

Part 2 – Room 213; 10:50–12:30

SA1206	<i>Increasing Physical and Social Activity through Virtual Coaching in an Ambient Environment</i> <b>Arjen Brandenburgh, Ward van Breda, Wim van der Ham, Michel Klein, Lisette Moeskops, and Peter Roelofsma</b>
A204	<i>Enhancing Communication through Distributed Mixed Reality</i> <b>Divesh Lala, Christian Nitschke, and Toyooki Nishida</b>
A249	<i>A New Graphical Representation of the Chatterbots' Knowledge Base</i> <b>Maria das Gracias Bruno Marietto, Rafael Verago de Aguiar, Wagner Tanaka Botelho, and Robson dos Santos França</b>
A277	<i>Designing Ambient Assisted Living Systems Based on Psychological Need and Ability Taxonomies</i> <b>Peter Roelofsma</b>

Monday, 11.08 - AMT

AMT WS2: SUMSC - International Workshop on Sensing, Understanding, and Modeling for Smart City

Chair: Maria J. Santofimia

Room 214; 10:50-12:30

SA2201	<i>Adaptive System for Intelligent Traffic Management in Smart Cities</i> <b>Paweł Gora and Piotr Wasilewski</b>
SA2202	<i>Implementing a Holistic Approach for the Smart City</i> <b>Roberto Requena, Antonio Agudo, Alba Baron, Maria Campos, Carlos Guijarro, Jose Puche, David Villa, Félix Villanueva, and Juan Carlos López</b>
A241	<i>A Resemblance Based Approach for Recognition of Risks at the Fire Ground</i> <b>Łukasz Sosnowski, Andrzej Pietruszka, Adam Krasuski, and Andrzej Janusz</b>
A243	<i>Elimination of Moving Shadow based on Vibe and Chromaticity from Surveillance Videos</i> <b>Huaxiang Zhao, Min Wook Kang, Kyoung Yeon Kim, and Yoo-Sung Kim</b>
SA2203	<i>KinBehR: KINect for human BEHaviour Recognition</i> <b>Ruben Cantarero, Maria J. Santofimia, Juan C. Lopez, Jesus Martinez-del-Rincon and J.C. Nebel</b>

Monday, 11.08 - AMT

AMT SPS1: Special session on Human Aspects in Cyber-Physical Systems

Chair: Adam Krasuski

Room 205; 16:00-18:20

SA5202	<i>Detecting Stay Areas from a User's Mobile Phone Data for Urban Computing</i> <b>Hui Wang, Ning Zhong, Zhisheng Huang, Jiajin Huang, Erzhong Zhou, and Runqiang Du</b>
SA5203	<i>Towards Robust Framework for On-line Human Activity Reporting Using Accelerometer Readings</i> <b>Michał Meina, Bartosz Celmer, and Krzysztof Rykaczewski</b>
SA5204	<i>Privacy-Preserving Emotion Detection for Crowd Management</i> <b>Zeki Erkin, Jie Li, Arnold P.O.S. Vermeeren, and Huib de Ridder</b>
SA5205	<i>Cellular Automaton Evacuation Model Coupled with a Spatial Game</i> <b>Anton von Schantz and Harri Ehtamo</b>
SA5207	<i>Certain Aspects of Foot-Mounted Inertial-based Indoor Navigation Systems</i> <b>Michał Meina, Krzysztof Rykaczewski, and Bartosz Celmer</b>
SA5208	<i>ICRA - an Example of an Implementation of Cyber-Physical System in the Fire Safety Domain</i> <b>Adam Krasuski and Łukasz Sosnowski</b>

AMT SPS2: Special session on Facial Image Analysis with Applications

Chair: Władysław Skarbek

Room 207; 16:00-18:20

SA6201	<i>Shape from Motion Revisited</i> <b>Władysław Skarbek</b>
SA6202	<i>Using Kinect for Facial Expression Recognition under Varying Poses and Illumination</i> <b>Filip Malawski, Bogdan Kwolek, and Shinji Sako</b>
SA6203	<i>High Accuracy Head Pose Tracking Survey</i> <b>Błażej Czupryński and Adam Strupczewski</b>
A213	<i>Facial Expression Data Constructed with Kinect and their Clustering Stability</i> <b>Angdy Erna, Linli Yu, Kaikai Zhao, Wei Chen, and Einoshin Suzuki</b>
A215	<i>Eye-gaze Tracking-based Telepresence System for Videoconferencing</i> <b>Bartosz Kunka, Adam Korzeniewski, Bożena Kostek, and Andrzej Czyżewski</b>

Tuesday, 12.08 - WI

WI SPS2: Special session on Complex Methods for Data and Web Mining

Chair: Jerzy Stefanowski

Part 1 - Room 215-216; 10:50-12:30

SE204	<i>Support Vector Machine for Malware Analysis and Classification</i> <b>Michał Kruczkowski and Ewa Niewiadomska-Szynkiewicz</b>
SE210	<i>A First-Order Decomposition Algorithm for Training Bound-Constrained Support Vector Machines</i> <b>Lingfeng Niu, Xi Zhao, and Yong Shi</b>
SE205	<i>Online Classification with Partially Labelled Texts</i> <b>Masato Shirai and Takao Miura</b>
Wr429	<i>Learning Hypotheses from Triadic Labeled Data</i> <b>Dmitry Ignatov, Roman Zhuk, and Natalia Konstantiova</b>
Wr226	<i>FoP: Never-ending Learner for Multimedia Knowledge Extraction</i> <b>Julien Subercaze and Christophe Gravier</b>

Part 2 – Room 215-216; 16:00 – 18:20

SE212	<i>Darwin, Lamarck, or Baldwin: Applying Evolutionary Algorithms to Machine Learning Techniques</i> <b>Andreas Holzinger, David Blanchard, Marcus Bloice, Katharina Holzinger, Vasile Palade, and Raul Rabadan</b>
SE201	<i>Maximum Entropy based Associative Regression for Sparse Datasets</i> <b>Aneesh Sreevallabh Chivukula and Vikram Pudi</b>
SE211	<i>Text Document Latent Subspace Clustering by PLSA Factors</i> <b>X.F. Zhou, J.G. Liang, Y. Hu, and L. Guo</b>
SE215	<i>Spammer Classification using Ensemble Methods over Structural Social Network Features</i> <b>Sajid Yousuf Bhat, Muhammad Abulaish, and Abdulrahman A. Mirza</b>
SE202	<i>Boosting Country Classification for Semantic Annotation in Social Networks</i> <b>Chang Su and Wenqiang Jia</b>
SE209	<i>A New Method for Community Detection Using Seed Nodes</i> <b>Chang Su, Yukun Wang, and Lan Zhang</b>
Wr241	<i>A Clique based Web Page Classification Corrective Approach</i> <b>Belmouhcine Abdelbadie and Benkhalifa Mohammed</b>



Tuesday, 12.08 - WI

WI SPS3: Joint special session on Granular Computing and Soft Clustering

Chair: Shusaku Tsumoto and Pawan Lingras

Room 205; 16:00-18:20

SC201	<i>FPGA in Rough-Granular Computing: Reduct Generation</i> <b>Maciej Kopczyński, Tomasz Grześ, and Jarosław Stepaniuk</b>
SC202	<i>Formal Analysis of Leave-One Out Method based on Incremental Sampling Scheme</i> <b>Shusaku Tsumoto and Shoji Hirano</b>
SC203	<i>Formal Analysis of Statistical Dependence based Homological Algebra</i> <b>Shusaku Tsumoto and Shoji Hirano</b>
SC204	<i>Data Mining Considering Curation</i> <b>Akinori Abe</b>
SC205	<i>On Some Models of Objective-based Rough Clustering</i> <b>Naohiko Kinoshita, Yasunori Endo, and Sadaaki Miyamoto</b>
SA202	<i>Drilling Down Through Multi-level Clustering Hierarchy based on User Needs</i> <b>Mathew Kallada, Gurbinder Kaur Sidhu, and Pawan Lingras</b>
SA203	<i>On Complexity of Effective Data Granulation in Databases</i> <b>Jakub Wróblewski and Marcin Kowalski</b>

Tuesday 12.08 - WI

WI RS1: Human-Web Interaction

Chair: Marcin Sydow

Room 111-112-113; 10:50 – 12:30

Wr213	<i>Enterprise Contextual Intelligence</i> <b>Gautam Shroff, Lipika Dey, and Hiranmay Ghosh</b>
Wr273	<i>Exploiting Text Mining Techniques for Contextual Recommendations</i> <b>Marcos Aurélio Domingues, Camila Vaccari Sundermann, Marcelo Garcia Manzato, Ricardo Marcondes Marcacini, and Solange Oliveira Rezende</b>
Wr421	<i>Generating Personalized Snippets for Web Page Recommender Systems</i> <b>Akihiko Watanabe, Ryohei Sasano, Hiroya Takamura, and Manabu Okumura</b>
Wr280	<i>Can Latent Features be Interpreted as Users in Matrix Factorization-based Recommender Systems?</i> <b>Armelle Brun, Marharyta Aleksandrova, and Anne Boyer</b>
Wr306	<i>Swarming in the Urban Web Space to Discover the Optimal Region</i> <b>Chandan Kumar, Uwe Gruenefeld, Wilko Heuten, and Susanne Boll</b>

Tuesday 12.08 - WI

WI RS2: World Wide Wisdom Web

Chair: TBA

Room 213; 10:50-12:30

Wr308	<i>Semantic Heuristic Search in Collaborative Networks: Measures and Contexts</i> <b>Valentina Franzoni, Marco Mencacci, Paolo Mengoni, and Alfredo Milani</b>
Wr318	<i>An Approach for Learning and Construction of Expressive Ontology from Text in Natural Language</i> <b>Ryan Ribeiro de Azevedo, Fred Freitas, Rodrigo G.C. Rocha, José Antônio Alves de Menezes, Cleyton Mário de Oliveira Rodrigues, and Gabriel de França Pereira e Silva</b>
Wr353	<i>Mining Twitter Data with Resource Constraints</i> <b>George Valkanas, Ioannis Katakis, Dimitrios Gunopulos, and Antony Stefanidis</b>
Wr404	<i>Conjunctive Query Programming: A Paradigm for Knowledge Engineering of Optimization Problems in the Semantic Web</i> <b>Thomas Fischer</b>
Wr447	<i>Effective Organization and Application of RDF/OWL Big Data Inspired by Human Memory Mechanism and Cognition</i> <b>Youjun Li and Ning Zhong</b>

Tuesday 12.08 - IAT

IAT RS1: Autonomy-Oriented Computing

Chair: TBA

Room 114-115-116; 10:50-12:30

Ir241	<i>Bi-level Token Ring for Multilateral Negotiations</i> <b>Romain Cailliere, Souhila Arib, Samir Aknine, and Chantal Berdier</b>
Ir271	<i>Ant Colony Clustering Approach Combined with Multilevel Framework for Functional Module Detection in Large-scale PPI Networks</i> <b>Hongxin Liu, Junzhong Ji, Cuicui Yang, Jiawei Lv, and Xiuzhen Zhang</b>
Ir273	<i>Self-adaptation of a Learnt Behaviour by Detecting and by Managing User's Implicit Contradictions</i> <b>Valérian Guivarch, Valérie Camps, André Péninou, and Pierre Glize</b>
Ir303	<i>Engineering Structural Adaptation for Self-organizing Multi-agent Systems</i> <b>Wolfgang Renz and Thomas Preisler</b>
Ir234	<i>Exploring Bio-inspired Self-Organization for Developing Emergent Intelligence in Urban Super Organism</i> <b>Sumant Mukherjee and Santanu Chaudhury</b>

Tuesday 12.08 - IAT

IAT RS2: Agent Systems Modeling

Chair: Munindar P. Singh

Room 111-112-113; 16:00-18:20

Ir202	<i>Peer-to-Peer Data Synchronization Agents</i> <b>Sylvain Kubler, Irfan Davalsab Nargund, Kary Främling, and William Derigent</b>
Ir205	<i>Agent-Based Simulation as a Tool for the Design of a Virtual Training Environment</i> <b>Tibor Bosse, Jeroen de Man, and Charlotte Gerritsen</b>
Ir212	<i>Extending the Jadex Framework with Coherence-Driven Adaptive Agent Decision-Making Model</i> <b>Serkan İşçi, Okan Topçu, and Levent Yılmaz</b>
Ir246	<i>Local Search for DisCSPs with Complex Local Problems</i> <b>Amina Sambo-Magaji, Ines Arana, and Hatem Ahriz</b>
Ir279	<i>Agent-Based Modelling of Primitive Human Communities</i> <b>Marzieh Jahanbazi, Christopher Frantz, Maryam Purvis, Martin Purvis, and Mariusz Nowostawski</b>
Ir252	<i>An Experimental Evaluation of Communication in an Organization-based Multi-Agent System</i> <b>Issam Bouslimi, Chihab Hanachi, and Khaled Ghedira</b>

Tuesday 12.08 - IAT

IAT RS3: Cooperation and Coordination

Chair: Cyrus F. Nourani

Room 114-115-116; 16:00-18:20

Ir209	<i>Helping Agents on Selecting their Future Partners</i> <b>Elane Cristina Saraiva and Viviane Torres da Silva</b>
Ir213	<i>CLEAN Rewards to Improve Coordination by Removing Exploratory Action Noise</i> <b>Chris HolmesParker, Mathew E. Taylor, Adrian K. Agogino, and Kagan Tumer</b>
Ir229	<i>Finding Better Teammates in a Semi-cooperative Multi-agent System</i> <b>Sara Amini and Mohsen Afsharchi</b>
Ir235	<i>Adaptive Collaborative Agent-based System for Crisis Management</i> <b>Sarah ben Othman, Nesrine Zoghلامي, Slim Hammadi, and Hayfa Zgaya</b>
Ir286	<i>A Negotiation Protocol for Optimal Decision Making by Collaborating Agents</i> <b>Divya Paliwal and Raj Bhatnagar</b>
Ir226	<i>Local Information Promotes Cooperation in Duplex Public Goods Games With Limited Resources</i> <b>Xiaoming Zheng, Yifeng Zhou, Weiwei Wu, and Yichuan Jiang</b>

Tuesday, 12.08 - BIH

BIH SPS3: Special session on State of the Art Technology in Hearing Loss Remediation

Chairs: Artur Lorens and Henryk Skarżyński

Auditorium; 10:50-12:30

SB6201	<i>Expert Telefitting Mode in National Network of Teleaudiology</i> <b>Arkadiusz Wąsowski, Anita Obrycka, Adam Walkowiak, Artur Lorens, Piotr Skarżyński, and Henryk Skarżyński</b>
SB6202	<i>Effect of Electric and Acoustic Stimulation on Sound Perception after Partial Deafness Treatment</i> <b>Artur Lorens and Henryk Skarżyński</b>
SB6203	<i>Determination of Hemispheric Dominance of Language Function with the use of fMRI</i> <b>Agnieszka Pluta, Tomasz Wolak, Monika Lewandowska, Mateusz Rusiniak, Katarzyna Cieśla, and Henryk Skarżyński</b>
SB6204	<i>The Effect of Auditory Perception Training on the Neural Representation of Frequency Discrimination in Children With Developmental Dyslexia - An AEP-fMRI Study</i> <b>Monika Lewandowska, Mateusz Rusiniak, Tomasz Wolak, Agnieszka Pluta, Katarzyna Cieśla, and Henryk Skarżyński</b>
SB6205	<i>Testing Working Memory Capacity in Patients with Cochlear Implant</i> <b>Joanna Putkiewicz, Artur Lorens, Anna Piotrowska, Małgorzata Zgoda, and Henryk Skarżyński</b>
SB6206	<i>Hearing Screening in Preschool and School Age Children - European Consensus and Council Conclusions</i> <b>Anna Piotrowska, Krzysztof Kochanek, and Henryk Skarżyński</b>
SB6207	<i>Tonotopical Organization of the Primary Auditory Cortex in Patients with Partial Deafness Based on Functional MRI</i> <b>Katarzyna Cieśla and Tomasz Wolak</b>

Tuesday, 12.08 - BIH

BIH SPS4: Special session on Understanding of Information Processing in Brain

Chair: Katarzyna Blinowska and Michał Żochowski

Part 1 - Room 207; 10:50-12:30

SB4215	<b>Special session tutorial:</b> <i>Estimation of Effective Connectivity from Electrophysiological Time Series</i> <b>Katarzyna Blinowska, Maciej Kamiński, Luiz A. Baccalá, Koichi Sameshima, and Grzegorz Blinowski</b>
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Part 2 – Room 207; 16:00 – 18:20

SB4201	<i>Information Transfer in Working Memory Auditory Task</i> <b>Aneta Brzezicka, Paweł Wroński, Jan Kamiński, Maciej Kamiński, and Katarzyna Blinowska</b>
SB4203	<i>On the Statistical Performance of Connectivity Estimators in the Frequency Domain</i> <b>Koichi Sameshima, Daniel Y. Takahashi, and Luiz A. Baccalá</b>
SB4205	<i>Causality and Influentiability: the Need for Distinct Neural Connectivity Concepts</i> <b>Luiz A. Baccalá and Koichi Sameshima</b>
SB4206	<i>Local Dimension-Reduced Dynamical Spatio-Temporal Models for Resting State Network Estimation</i> <b>Gilson Vieira, Edson Amaro Jr., and Luiz A. Baccalá</b>
SB4210	<i>A Family of Reduced-Rank Neural Activity Indices for EEG/MEG Source Localization</i> <b>Tomasz Piotrowski, D. Gutiérrez, Isao Yamada, and Jarosław Żygierewicz</b>
SB4211	<i>Mood Related Changes in Attention During Emotional Perception Assessed by the Directed Transfer Function</i> <b>Mirosław Wyczesany</b>
SB4213	<i>Neurologically Inspired Computational Cognitive Modelling of Situation Awareness</i> <b>Dilhan J. Thilakarathne</b>
SB4214	<i>Linking Network Structure and Dynamics to Brain Function</i> <b>James Roach, Leonard Sander, and Michał Żochowski</b>



Tuesday, 12.08- BIH

BIH RS1: Cognitive Modelling

Chair: Rory Lewis

Room 205; 10:50-12:30

B244	<i>Shift of Brain-State during Recovery from Discomfort Induced by Aversive Pictures</i> <b>Yang Yang, Emi Tosaka, Xiaojing Yang, Kazuyuki Imamura, Xiuya Lei, Gang Wang, Bin Hu, Shengfu Lu, and Ning Zhong</b>
B239	<i>Consciousness Study of Subjects with Unresponsive Wakefulness Syndrome Employing Multimodal Interfaces</i> <b>Bartosz Kunka, Tomasz Sanner, Andrzej Czyżewski, and Agnieszka Kwiatkowska</b>
B255	<i>Establishing a Baseline Value of Cognitive Skills among School-Aged Children in Upper Egypt Using Computer Based Cognitive Assessment Rehacom Program</i> <b>Faten Hassan Abdelazim and Shereen Ali Ameen</b>
B263	<i>When are Two Visual Cognition Systems Better Than One?</i> <b>Darius A. Mulia, Alfonso Vergara, Charles R. Skelsey, Lihan Yao, and D. Frank Hsu</b>
B207	<i>Haptic Computing Facial or Visual Expressions</i> <b>Cyrus F. Nourani</b>

Tuesday 12.08 - AMT

AMT SPS3: Special session on Intelligent Technologies in Mineral Exploration

Chair: Andrzej Jankowski

Room 214; 10:50-12:30

A279	<i>Intelligent Efficiency Management System for Exploration of Hydrocarbons and other Mineral Resources</i> <b>Andrzej Jankowski and Piotr Krzywiec</b>
SA3201	<i>New Intelligent Method of Shale Gas Recovery with the use of Super-critical CO<sub>2</sub></i> <b>Tadeusz Niezgoda and Danuta Miedzińska</b>
SA3202	<i>Mineral/Rock Resources - On-line Databases</i> <b>Ewa Słaby</b>
SA3203	<i>Future Challenges of Mineral Exploration and Mining</i> <b>Krzysztof Szamatek</b>
SA3204	<i>DISESOR the Decision Support System for Systems that Monitor Equipment, Processes and Natural Hazards</i> <b>Marek Sikora, Łukasz Wróbel, Marcin Michalak, and Michał Kozielski</b>

AMT RS1: Active Media and Ubiquitous Learning Foundations

Room 211-212; 10:50-12:30

A206	<i>A Semi-Supervised Learning Algorithm for Web Information Extraction with Tolerance Rough Sets</i> <b>Center Sengoz and Sheela Ramanna</b>
A235	<i>Identifying Influential Nodes in Complex Networks: A Multiple Attributes Fusion Method</i> <b>Lu Zhong, Chao Gao, Zili Zhang, Ning Shi, and Jiajin Huang</b>
A253	<i>Local Regression Transfer Learning for Users' Personality Prediction</i> <b>Zengda Guan, Dong Nie, Bibo Hao, Shuotian Bai, and Tingshao Zhu</b>
A264	<i>Graph Clustering using Mutual K-Nearest Neighbors</i> <b>Divya Sardana and Raj Bhatnagar</b>
A219	<i>How Variability in Individual Patterns of Behavior Changes the Structural Properties of Networks</i> <b>Somayeh Koohborfardhaghghi and Jörn Altmann</b>

Tuesday 12.08 - AMT

AMT RS2: Big Data Management and Mining for Active Media

Chair: Bożena Kostek

Room 211-212; 16:00-18:20

A268	<i>A Scalable Boosting Learner for Multi-Class Classification using Adaptive Sampling</i> <b>Jianhua Chen</b>
A205	<i>Scaling of Complex Calculations over Big Data-sets</i> <b>Marek Grzegorowski</b>
A216	<i>Music Data Processing and Mining in Large Databases for Active Media</i> <b>Piotr Hoffmann and Bożena Kostek</b>
A247	<i>Mining False Information on Twitter for a Major Disaster Situation</i> <b>Keita Nabeshima, Junta Mizuno, Naoaki Okazaki, and Kentaro Inui</b>
A256	<i>Finding Cyclic Patterns on Sequential Data</i> <b>António Barreto and Cláudia Antunes</b>
A258	<i>Exploring Temporal Dependencies to Perform Automatic Prognosis</i> <b>Daniel Cardoso and Cláudia Antunes</b>
A276	<i>Meta-patterns for Controlling Pattern Explosion</i> <b>Daniel Serrano and Cláudia Antunes</b>

Wednesday 13.08 - WI

WI RS3A: Web Intelligence Applications 1

Chair: Muhammad Abulaish

Room 111-112-113; 9:00-10:20

Wr204	<i>VIPReader: A Light News Reader for the Visually Impaired Person</i> <b>Mengmeng Ye, Ping Li, and Qing Li</b>
Wr339	<i>Predicting the Near-Weekend Ticket Sales Using Web-Based External Factors and Box-Office Data</i> <b>Seonghoon Moon, Suman Bae, and Songkuk Kim</b>
Wr249	<i>Tools for External Plagiarism Detection in DOCODE</i> <b>Juan Velásquez and Edison Marrese-Taylor</b>
Wr265	<i>Two-Phase Pareto Set Discovery for Team Formation in Social Network</i> <b>Morteza Zihayat, Mehdi Kargar, and Aijun An</b>

WI RS4A: Social Networks Data Analysis 1

Chair: Christophe Gravier

Room 211-212; 9:00-10:20

Wr297	<i>Temporal Behavior of Social Network Users in Information Diffusion</i> <b>Guolin Niu, Yi Long, and Victor O.K. Li</b>
Wr425	<i>Time Makes Sense: Event Discovery in Twitter using Temporal Similarity</i> <b>Paola Velardi and Giovanni Stilo</b>
Wr433	<i>TSBM: The Temporal-Spatial Bayesian Model for Location Prediction in Social Networks</i> <b>Yantao Jia, Yuanzhuo Wang, Xiaolong Jin, and Xueqi Cheng</b>
Wr292	<i>Exploiting Social Media for Stock Market Prediction with Factorization Machine</i> <b>Chen Chen, Wu Dongxing, Hou Chuyan, and Yuan Xiaojie</b>

Wednesday 13.08 - WI

WI RS5A: Foundations of Web Intelligence 1

Chair: TBA

213; 9:00 – 10:20

Wr263	<i>Adaptive Landmark Selection Strategies for Fast Shortest Path Computation in Large Real-World Graphs</i> <b>Frank W. Takes and Walter A. Kosters</b>
Wr361	<i>Enumerating Communities for a Deeper Understanding of Community Finding</i> <b>Zachary Kurmas, Hugh McGuire, Jerry Scripps, and Christian Trefftz</b>
Wr372	<i>Big Data - Characterizing an Emerging Research Field using Topic Models</i> <b>Thomas Hansmann and Peter Niemeyer</b>

WI RS6A: Recommender Systems 1

Chair: TBA

Room 215-216; 9:00 – 10:20

Wr215	<i>Finding the Needle in the Haystack: Identifying Business Communities in Internet Traffic</i> <b>Stefan Weigert, Matti A. Hiltunen, and Christof Fetzer</b>
Wr244	<i>NCDREC: A Decomposability Inspired Framework for Top-N Recommendation</i> <b>Athanasios N. Nikolakopoulos and John D. Garofalakis</b>
Wr363	<i>A Link Prediction Approach for Item Recommendation with Complex Number</i> <b>Feng Xie, Zhen Chen, Jiaxing Shang, Xiaoping Feng, Wenliang Huang and Jun Li</b>
Wr408	<i>Online Recommender System for Radio Station Hosting: Experimental Results Revisited</i> <b>Dmitry I. Ignatov, Sergey Nikolenko, Taimuraz Abaev, and Natalia Konstantinova</b>

Wednesday 13.08 - WI

WI RS7A: Semantic Aspects of Web Intelligence 1

Chair: TBA

Room 111-112-113; 10:50-12:30

Wr218	<i>Aspect-based Similar Entity Search in Semantic Knowledge Graphs with Diversity-Awareness and Relaxation</i> <b>Steffen Metzger, Ralf Schenkel, and Marcin Sydow</b>
Wr245	<i>Learning Concise Pattern for Interlinking with Extended Version Space</i> <b>Zhengjie Fan, Jérôme Euzenat, and François Scharffe</b>
Wr287	<i>SORM: A Social Opinion Relevance Model</i> <b>Allan Diego Silva Lima and Jaime Simão Sichman</b>
Wr289	<i>Collecting Conceptualized Relations from Terabytes of Web Texts for Understanding Unknown Terms</i> <b>Masumi Shirakawa, Kotaro Nakayama, Eiji Aramaki, Takahiro Hara, and Shojiro Nishio</b>
Wr300	<i>Person Identification between Different Online Social Networks</i> <b>Cheng-Ta Chung, Chia-Jui Lin, Chih-Hung Lin, and Pu-Jen Cheng</b>

Wednesday 13.08 - WI

WI RS8A: Web Mining 1

Chair: TBA

Room 211-212; 10:50 – 12:30

Wr246	<i>GeoEcho: Inferring User Interests from Geotag Reports in Network Traffic</i> <b>Ning Xia, Stanislav Miskovic, Mario Baldi, Aleksandar Kuzmanovic, and Antonio Nucci</b>
Wr251	<i>A Dynamic Approach to the Website Boundary Detection Problem Using Random Walks</i> <b>Ayesh Alshukri and Frans Coenen</b>
Wr253	<i>Ranking of Coordinate Terms and Hypernyms Using a Hypernym-Hyponym Dictionary</i> <b>Kosetsu Tsukuda, Hiroaki Ohshima, and Katsumi Tanaka</b>
Wr272	<i>Semantic Similarity Measurements for Multi-lingual Short Texts Using Wikipedia</i> <b>Tatsuya Nakamura, Masumi Shirakawa, Takahiro Hara, and Shojiro Nishio</b>
Wr288	<i>Using Extended Random Set to Find Specific Patterns</i> <b>Mubarak Albathan, Yuefeng Li, and Yue Xu</b>

Wednesday 13.08 - WI

WI RS9: Web Intelligence Technologies

Chair: TBA

Room 111-112-113; 16:00 – 18:00

Wr219	<i>Synthoid: Endpoint User Profile Control</i> <b>Marcel Flores and Aleksandar Kuzmanovic</b>
Wr314	<i>SocialTrust: Adaptive Trust Oriented Incentive Mechanism for Social Commerce</i> <b>Zeinab Noorian, Mohsen Mohkami, Yuan Liu, Hui Fang, Julita Vassileva, and Jie Zhang</b>
Wr330	<i>Automatic Tagging Web Services using Machine Learning Techniques</i> <b>Maria Lin and David W. Cheung</b>
Wr389	<i>Web Service Matchmaking Using a Hybrid of Signature and Specification Matching Methods</i> <b>Syed Sibte Rzza Abidi, Ali Daniyal, and Syed Farrukh Mehdi</b>
Wr411	<i>Computing Trust as a form of Presumptive Reasoning</i> <b>Pierpaolo Dondio and Luca Longo</b>
Wr445	<i>Anatomy of a Consumer Web Transaction</i> <b>Kin Fun Li and Gulnar Ali</b>



Wednesday 13.08 - IAT

IAT RS4: Emotional Agents

Chair: Andrea G.B. Tettamanzi

Room 114-115-116; 9:00-10:20

Ir228	<i>An Emotional Agent Model for the Simulation of Realistic Civilian Behaviors during Emergency Situations</i> <b>Mouna Belhaj, Fahem Kebair, and Lamjed Ben Said</b>
Ir230	<i>Effect of Changes in the Structure of a Social Network on Emotion Contagion</i> <b>Michel Klein, Adnan Manzoor, Julia Mollee, and Jan Treur</b>
Ir243	<i>Computational Models of Players' Physiological-Based Emotional Reactions: A Digital Games Case Study</i> <b>Pedro A. Nogueira, Rúben Aguiar, Rui Rodrigues, and Eugénio Oliveira</b>
Ir274	<i>A Profitable Online No-Limit Poker Playing Agent</i> <b>Luís Filipe Teófilo, Luís Paulo Reis, and Henrique Lopes Cardoso</b>

IAT RS5: Agent Systems Engineering

Chair: Eric Matson

Room 114-115-116; 10:50-12:30

Ir260	<i>A Case-Based Reasoning Architecture of an Hybrid Software Agent</i> <b>Adriana Leite Costa and Rosario Girardi</b>
Ir203	<i>MAIA: An Event-based Modular Architecture for Intelligent Agents</i> <b>J. Fernando Sánchez-Rada and Carlos A. Iglesias</b>
Ir208	<i>A Generic Mapping Approach for the Integration of BDI with Object Orientation</i> <b>Lars Braubach and Alexander Pokahr</b>
Ir211	<i>SARL: a General-Purpose Agent-Oriented Programming Language</i> <b>Sebastian Rodriguez, Nicolas Gaud, and Stéphane Galland</b>
Ir267	<i>Optimizing Context Computation for Multiagent Simulations</i> <b>Flavien Balbo, Mahdi Zargayouna, and Fabien Badeig</b>

Wednesday 13.08 - IAT

IAT RS6: Knowledge and Information Agents

Chair: Ah-Hwee Tan

Room 114-115-116; 16:00-18:00

Ir299	<i>Computationally-Friendly Argumentation Schemes</i> <b>Barbara Dunin-Kępicz and Alina Strachocka</b>
Ir242	<i>Understanding Instructions on Large Scale for Human-Robot Interaction</i> <b>Jiongkun Xie and Xiaoping Chen</b>
Ir293	<i>Natural Multi-Language Interaction Between Firefighters and Fire Fighting Robots</i> <b>Ji Hyeon Hong, Julia Taylor, and Eric Matson</b>
Ir233	<i>Integrating Motivated Learning and k-Winner-Take-All to Coordinate Multi-agent Reinforcement Learning</i> <b>Teck-Hou Teng, Ah-Hwee Tan, Janusz A. Starzyk, Yuan-Sin Tan, and Loo-Nin Teow</b>
Ir207	<i>Modeling Dynamics of Cognitive Control in Action Formation with Intention, Attention, and Awareness</i> <b>Dilhan J. Thilakarathne</b>
Ir210	<i>Spread of Situation Awareness in a Group: Population-based vs. Agent-based Modelling</i> <b>Tibor Bosse and Nataliya Mogles</b>

Wednesday 13.08 - IAT

IAT RS7: Norms, Conventions and Networks

Chair: Lars Braubach

Room 211-212-213; 16:00-18:00

Ir236	<i>A Multilevel Agent-based Approach for Trustworthy Service Selection in Social Networks</i> <b>Amine Louati, Joyce El Haddad, and Suzanne Pinson</b>
Ir217	<i>Emergence of Conventions for Efficiently Resolving Conflicts in Complex Networks</i> <b>Toshiharu Sugawara</b>
Ir264	<i>Analysing the Dynamics of Norm Evolution using Interval Type-2 Fuzzy Sets</i> <b>Christopher Frantz, Martin K. Purvis, Mariusz Nowostawski, and Bastin Tony Roy Savarimuthu</b>
Ir281	<i>Normative Positions within Norm-Regulated Transition System Situations</i> <b>Magnus Hjelmblom</b>
Ir253	<i>Testing Carlo Cipolla's Laws of Human Stupidity with Agent-Based Modeling</i> <b>Andrea G.B. Tettamanzi and Célia da Costa Pereira</b>
Ir268	<i>Reducing the Number of Samples in Distributed Cooperative Solution Method for Resource Supply Networks</i> <b>Toshihiro Matsui, Masayuki Kaneko, Yuho Takama, and Hiroshi Matsuo</b>

Wednesday, 13.08 - BIH

BIH SPS6: Special session on Analysis of Complex Medical Data

Chair: Ernestina Menasalvas

Room 213; 10:50-12:30

SB3201	<i>An Approach to Detect Negation on Medical Documents in Spanish</i> <b>Roberto Costumero, Federico Lopez, Consuelo Gonzalo-Martín, Socorro Millán, and Ernestina Menasalvas</b>
SB3204	<i>Are some Brain Injury Patients Improving More than Others?</i> <b>Zaigham Faraz Siddiqui, Georg Krempl, Myra Spiliopoulou, Jose M. Peña, Nuria Paul, and Fernando Maestu</b>
B238	<i>An adaptive Expert System for Automated Advices Generation-Based in Semi-continuous M-Health Monitoring</i> <b>Mohamed Adel Serhani, Abdelghani Benharref, and Al Ramzana Nujum</b>
B249	<i>Application of Artificial Neural Networks for the Diagnosis of The Condition of the Arterio-venous Fistula on the Basis of Acoustic Signals</i> <b>Marcin Grochowina, Lucyna Leniowska, and Piotr Dulkiwicz</b>
B268	<i>Analyzing Data of Steroid Replacement Therapy after Surgery for Cushing's Syndrome by Using the Pattern Recognition Methods and Mathematical Modelling to Assist Appropriate Steroid Supplement</i> <b>Kenichi Sato, Sorama Aoki, Masataka Kudo, Fumitoshi Satoh, Ryo Morimoto, Yoshitsugu Iwakura, Yoshikiyo Ono, Ken Matsuda, Akira Sugawara, Katsumi Yoshida, and Sadayoshi Ito</b>

Wednesday, 13.08 - BIH

BIH SPS5: Special session on Extracting Knowledge from Symptoms in Neurodegenerative Disease (Parkinson)

Chair: Andrzej W. Przybyszewski and Konrad Wojciechowski

Room 214; 9:00-10:20

SB2201	<i>Intraoperative Decision Making with Rough Set Rules for STN DBS in Parkinson Disease</i> <b>Konrad Ciecierski, Zbigniew W. Raś, and Andrzej W. Przybyszewski</b>
SB2202	<i>The analysis of Correlation between MOCAP-Based and UPDRS-Based Evaluation of Gait in Parkinson's Disease Patients</i> <b>Magdalena Lachor, Adam Świtoński, Magdalena Boczarska-Jedynak, Stanisław Kwiek, Konrad Wojciechowski, and Andrzej Polański</b>
SB2203	<i>Rough Set Rules Help to Optimize Parameters of Deep Brain Stimulation in Parkinson's Patients</i> <b>Artur Szymański and Andrzej W. Przybyszewski</b>
SB2204	<i>Morphometric Basis of Depression in Parkinson's Disease and the Possibility of Its Prediction</i> <b>Aleksandr Efimtsev, Vladimir Fokin, Andrei Sokolov, Leonid Voronkov, and Artem Trufanov</b>

BIH SPS7: Special session on Early Detection of Dementia

Chair: Satoshi Takahashi and Jinglong Wu

Room 214; 10:50-12:30

SB8201	<i>EEG Beta-band Power as an Indicator of Attentional Deterioration in Aging</i> <b>Mateusz Gola</b>
SB8203	<i>Early Detection of Alzheimer's Disease with A Novel Tactile Cognitive Approach</i> <b>Jinglong Wu, Satoshi Takahashi, Jiajia Yang, and Koji Abe</b>
SB8202	<i>A New Approach of Audiovisual Integration for Early Detection of Dementia</i> <b>Satoshi Takahashi, Jinglong Wu, Jiajia Yang, and Koji Abe</b>
B271	<i>The Cognitive Functions and Consciousness in Mathematics Education</i> <b>Tadashi Takahashi</b>
B250	<i>Augmenting Cognitive Reserve of Dementia Patients with Brain Aerobics</i> <b>Ahmad Zmily and Ehab Mashal</b>

Wednesday, 13.08 - BIH

BIH RS2: Brain Data Analytics

Chair: Consuelo Gonzalo-Martín

Room 215-216; 10:50 – 12:30

B202	<i>Autocovariance Based PCA Method for fMRI Data</i> <b>Dazhong Liu, Xuedong Tian, and Liang Zhu</b>
B208	<i>Balancing the Stability and Predictive Performance for Multivariate Voxel Selection in fMRI Study</i> <b>Shulin Yan, Xian Yang, Chao Wu, Zhiyun Zheng, and Yike Guo</b>
B222	<i>P3 Component Detection using HHT: Improvement of EMD with Additional Stopping Criteria</i> <b>Tomáš Prokop and Roman Mouček</b>
B248	<i>A Novel Feature Extractor Based on Wavelet and kernel PCA for Spike Sorting Neural Signals</i> <b>Jun-Tao Liu, Sheng-Wei Xu, Ji-Yang Zhou, Mi-Xia Wang, Nan-Sen Lin, and Xin-Xia Cai</b>
B252	<i>Artifacts Reduction Method in EEG signals with Wavelet Transform and Adaptive Filter</i> <b>Rui Huang, Fei Heng, Bin Hu, Hong Peng, Qinglin Zhao, Qiuxia Shi, and Jun Han</b>

Wednesday, 13.08 - BIH

BIH RS3: Brain Understanding and Semantic Aspects of Biomedical Analytics

Chair: Piotr Wasilewski

Room 205; 16:00-18:00

B210	<i>Ventral Stream Plays an Important Role in Statistical Graph Comprehension: An fMRI Study</i> <b>Mi Li, Shengfu Lu, Jing Wang, Liwang Ma, Mengjie Zhang, and Ning Zhong</b>
B247	<i>Computational Neuro-Modeling of Visual Memory: Multimodal Imaging and Analysis</i> <b>Mohammed Elanbari, Nawel Nemmour, Othmane Bouhali, Reda Rawi, Ali Sheharyar, and Halima Bensmai</b>
B209	<i>Neuronal Morphology Modeling based on Microscopy Reconstruction Data in the Public Repositories</i> <b>Yi Zeng, Weida Bi, Xuan Tang, and Bo Xu</b>
B245	<i>Ontology-based Text Classification for Filtering Cholangiocarcinoma Documents from PubMed</i> <b>Chumsak Sibunruang and Jantima Polpinij</b>
B246	<i>Multiple Inheritance Problem in Semantic Spreading Activation Networks</i> <b>Paweł Matykiewicz and Włodzisław Duch</b>
B265	<i>An Ontology Based Knowledge Preservation Model for Traditional Unani Medicines</i> <b>Sobia Amjad, Talha Waheed, Ana M. Martinez Enriquez, Muhammad Aslam, and Afraz Syed</b>

Wednesday, 13.08- BIH

BIH RS4: Health Data Analytics

Chair: Gerald Schaefer

Room 207; 16:00 – 18:00

B212	<i>Utilizing Data Mining for Predictive Modeling of Colorectal Cancer using Electronic Medical Records</i> <b>Mark Hoogendoorn, Leon M.G. Moons, Mattijs E. Numans, and Robert-Jan Sips</b>
B215	<i>Extracting Phenotypes from Patient Claim Records using Nonnegative Tensor Factorization</i> <b>Joyce C. Ho, Joydeep Ghosh, and Jimeng Sun</b>
B225	<i>A Hierarchical Ensemble of <math>\alpha</math>-Trees for Predicting Expensive Hospital Visits</i> <b>Yubin Park and Joydeep Ghosh</b>
B253	<i>Mining Professional Knowledge from Medical Records</i> <b>Hen-Hsen Huang, Chia-Chun Lee, and Hsin-Hsi Chen</b>
B261	<i>Predicting Flu Epidemics using Twitter and Historical Data</i> <b>Giovanni Stilo, Paola Velardi, Alberto E. Tozzi, and Francesco Gesualdo</b>
B267	<i>Text Analysis and Information Extraction from Spanish Written Documents</i> <b>Roberto Costumero, Ángel García-Pedrero, Consuelo Gonzalo-Martín, Ernestina Menasalvas, and Socorro Millán</b>



Wednesday 13.08 - AMT

AMT RS3: Social Networks and Social Media

Chair: Hiranmay Ghosh

Room 214-215-216; 16:00-18:20

A208	<i>Active Recommendation of Tourist Attractions based on Visitors Interests and Semantic Relatedness</i> <b>Yi Zeng, Tielin Zhang, and Hongwei Hao</b>
A248	<i>Twitter Sentiment Polarity Analysis: a Novel Approach for Improving the Automated Labeling in a Text Corpora</i> <b>Pablo A. Tapia and Juan Velásquez</b>
A255	<i>Empirical Study of Conversational Community Using Linguistic Expression and Profile Information</i> <b>Junki Marui, Nozomi Nori, Takeshi Sakaki, and Junichiro Mori</b>
A260	<i>Multi Agent System based Interface for Natural Disaster</i> <b>Zahra Sharmeen, Ana Maria Martinez-Enriquez, Muhammad Aslam, Afraz Zahra Syed, and Talha Waheed</b>
A269	<i>An Unsupervised Approach to Identify Location Based on the Content of User's Tweet History</i> <b>Satya Katragadda, Miao Jin, and Vijay Raghavan</b>
A275	<i>Sensing Subjective Well-being from Social Media</i> <b>Bibo Hao, Lin Li, Rui Gao, Ang Li, and Tingshao Zhu</b>

Thursday 14.08 - WI

WI RS4B: Social Networks Data Analysis 2

Chair: Christophe Gravier

Room 214-215-216; 9:00-10:20

Wr303	<i>Predicting Personality On Social Media with Semi-supervised Learning</i> <b>Dong Nie, Zengda Guan, Bibo Hao, Shuotian Bai, and Tingshao Zhu</b>
Wr367	<i>The Correlation between Language Shift and Social Conflicts in Polarized Social Media</i> <b>Masoud Makrehchi</b>
Wr371	<i>A Systematic Framework for Sentiment Identification by Modeling User Social Effects</i> <b>Kunpeng Zhang, Yi Yang, Aaron Sun, and Hengchang Liu</b>
Wr409	<i>Recursive Deep Learning for Sentiment Analysis over Social Data</i> <b>Changliang Li, Bo Xu, Gaowei Wu, Saike He, Guanhua Tian, and Hongwei Hao</b>

WI RS5B: Foundations of Web Intelligence 2

Room 308; 9:00 – 10:20

Wr205	<i>Structural Vulnerability Analysis of Overlapping Communities in Complex Networks</i> <b>Md Abdul Alim, Nam P. Nguyen, Thang N. Dinh, and My T. Thai</b>
Wr223	<i>Cloud Application Development Methodology</i> <b>Hind Benfenatki, Catarina Ferreira da Silva, Aïcha-Nabila Benharkat, and Parisa Ghodous</b>
Wr256	<i>Multi-Agent Information Diffusion Model for Twitter</i> <b>Keisuke Ikeda, Yoshiyuki Okada, Fujio Toriumi, Takeshi Sakaki, Kazuhiro Kazama, Itsuki Noda, Kosuke Shinoda, Hirohiko Suwa, and Satoshi Kurihara</b>
Wr386	<i>Efficient Spatio-textual Similarity Join Using MapReduce</i> <b>Yu Zhang, Youzhong Ma, and Xiaofeng Meng</b>

Thursday 14.08 - WI

WI RS6B: Recommender Systems 2

Chair: TBA

Room 214-215-216; 10:50-12:30

Wr281	<i>Optimizing Personalized Ranking in Recommender Systems with Metadata Awareness</i> <b>Marcelo G. Manzato, Marcos A. Domingues, and Solange O. Rezende</b>
Wr335	<i>Improving Personalized Ranking in Recommender Systems with Multimodal Interactions</i> <b>Arthur F. da Costa, Marcos A. Domingues, Solange O. Rezende, and Marcelo G. Manzato</b>
Wr373	<i>SemanticSVD++: Incorporating Semantic Taste Evolution for Predicting Ratings</i> <b>Matthew Rowe</b>
Wr378	<i>Propagating Users' Similarity towards improving Recommender Systems</i> <b>Anna Satsiou and Leandros Tassioulas</b>
Wr434	<i>Fuzziness and Ontology in Personalization of Selection Processes in the Semantic Web</i> <b>Marek Z. Reformat, Cuong Ly, and Petr Musilek</b>

WI RS7B: Semantic Aspects of Web Intelligence 2

Chair: TBA

Room 111-112-113; 10:50-12:30

Wr307	<i>Obtaining Technology Insights from Large and Heterogeneous Document Collections</i> <b>Lipika Dey, Diwakar Mahajan, and Hemant Gupta</b>
Wr366	<i>A New Sentence Similarity Method Based on a Three-Layer Sentence Representation</i> <b>Rafael Ferreira, Rafael Dueire Lins, Fred Freitas, Bruno Avila, Steven J. Simske, and Marcelo Riss</b>
Wr377	<i>Multi-Feature and DAG-Based Multi-Tree Matching Algorithm for Automatic Web Data Mining</i> <b>Shengsheng Shi, Chengfei Liu, Chunfeng Yuan, and Yihua Huang</b>
Wr417	<i>A Comparison of Mobile Rule Engines for Reasoning on Semantic Web Based Health Data</i> <b>William Van Woensel, Newres Al Haider, Patrice C. Roy, Ahmad Marwan Ahmad, and Syed S.R. Abidi</b>
Wr419	<i>Locality-Sensitive Hashing for Massive String-Based Ontology Matching</i> <b>Michael Cochez</b>

Thursday 14.08 - WI

WI RS8B: Web Mining 2

Chair: TBA

Room 211-212-213; 10:50 – 12:30

Wr299	<i>A POI Categorization by Composition of Onomastic and Contextual Information</i> <b>Su Jeong Choi, Hyun-Je Song, Seong-Bae Park, and Sang-Jo Lee</b>
Wr320	<i>Parallel Community Detection For Cross-Document Coreference</i> <b>Fatemeh Rahimian, Sarunas Girdzijauskas, and Seif Haridi</b>
Wr327	<i>Implicitly Learning a User Interest Profile for Personalization of Web Search using Collaborative Filtering</i> <b>Ashish Nanda, Rohit Omanwar, and Bharat Deshpande</b>
Wr416	<i>DiscWord: Learning Discriminative Topics</i> <b>Yu Jiang, Xian Li, and Weiyi Meng</b>
Wr224	<i>Research and Improvement of Focused Crawling Strategy</i> <b>Jianzhuo Yan, Hui Wang, Liying Fang, Liying Long, Hirui Luo, and Xinqing Shi</b>

WI RS3B: Web Intelligence Applications 2

Chair: Muhammad Abulaish

Room 214-215-216; 16:00-18:00

Wr343	<i>Ontology Based Data Access and Integration for Improving the Effectiveness of Farming in Nepal</i> <b>Suresh Pokharel, Mohamed Ahmed Sherif, and Jens Lehmann</b>
Wr207	<i>Contexts Recommendation Using Multi-Label Classification</i> <b>Yong Zheng, Bamshad Mobasher, and Robin Burke</b>
Wr364	<i>Recommending Judgment Targets for Rating Provision</i> <b>Friederike Klan and Birgitta König-Ries</b>
Wr381	<i>How Can We Help Our K-12 Teachers?: Using a Recommender to Make Personalized Book Suggestions</i> <b>Maria Soledad Pera and Yiu-Kai Ng</b>
Wr423	<i>Word Sense Induction with Multilingual Features Representation</i> <b>Lorenzo Albano, Domenico Beneventano, and Sonia Bergamaschi</b>
Wr315	<i>A Web-based Intelligent Tutoring System for Introductory Programming</i> <b>Štefan Pero and Tomáš Horváth</b>

Thursday 14.08 - WI

WI RS10A: Opinion Mining 1

Chair: Juan Velásquez

Room 111-112-113; 9:00-10:20

Wr227	<i>Evaluating Feature Sets and Classifiers for Sentiment Analysis of Financial News</i> <b>Pål-Christian S. Njølstad, Lars S. Høysæter, Wei Wei, and Jon Atle Gulla</b>
Wr228	<i>Make It Possible: Multilingual Sentiment Analysis without Much Prior Knowledge</i> <b>Zheng Lin, Xiaolong Jin, Xueke Xu, Yuanzhuo Wang, Songbo Tan, and Xueqi Cheng</b>
Wr259	<i>Web-Based Analysis of Chinese Discourse Markers for Opinion Mining</i> <b>Hen-Hsen Huang, Chi-Hsin Yu, Tai-Wei Chang, Cong-Kai Lin, and Hsin-Hsi Chen</b>
Wr271	<i>Transfer Learning for Emotional Polarity Classification</i> <b>Quang-Hong Vuong and Atsuhiko Takasu</b>

WI RS10B: Opinion Mining 2

Chair: Juan Velásquez

Room 111-112-113; 16:00-18:00

Wr304	<i>Multilingual Sentiment Analysis using Emoticons and Keywords</i> <b>Georgios S. Solakidis, Konstantinos N. Vavliakis, and Pericles A. Mitkas</b>
Wr319	<i>A Statistical and Evolutionary Approach to Sentiment Analysis</i> <b>Jonnathan Carvalho, Adriana Prado, and Alexandre Plastino</b>
Wr342	<i>Sentiment-based Features for Predicting Election Polls: A Case Study on the Brazilian Scenario</i> <b>Diego Tumitan and Karin Becker</b>
Wr384	<i>Learning Bilingual Embedding Model for Cross-language Sentiment Classification</i> <b>Xuwei Tang and Xiaojun Wan</b>
Wr324	<i>Ranking Linked-Entities in a Sentiment Graph</i> <b>Filipa Peleja, João Santos, and João Magalhães</b>
Wr436	<i>Popularity Meter: Linked-Entities in a Sentiment Graph</i> <b>Filipa Peleja and João Magalhães</b>

Thursday 14.08 - WI

WI RS11A: Information Retrieval 1

Chair: Dmitry Ignatov

Room 211-212-213; 9:00-10:20

Wr220	<i>Sentence-based Plot Classification for Online Review Comments</i> <b>Hidehiko Iwai, Yoshinori Hijikata, Kaori Ikeda, and Shogo Nishida</b>
Wr260	<i>Summarizing Search Results with Community Question Answering</i> <b>Chung-Lun Chiang, Shih-Ying Chen, and Pu-Jen Cheng</b>
Wr278	<i>Lazy Walks Versus Walks with Backstep: Flavor of PageRank</i> <b>Mieczysław A. Kłopotek, Sławomir T. Wierzchoń, Krzysztof Ciesielski, Dariusz Czerski, and Michał Damiński</b>
Wr296	<i>A Machine Learning Approach to SPARQL Query Performance Prediction</i> <b>Rakebul Hasan and Fabien Gandon</b>

WI RS11B: Information Retrieval 2

Chair: Dmitry Ignatov

Room 211-212-213; 16:00-18:00

Wr344	<i>Improving Biodiversity Data Retrieval through Semantic Search and Ontologies</i> <b>Flor Karina Mamani Amanqui, Kleber J. Serique, Silvio D. Cardoso, José Laurindo Campos dos Santos, Andrea Albuquerque, and Dilvan A. Moreira</b>
Wr349	<i>Online Retweet Recommendation with Item Count Limits</i> <b>Xiaoqi Zhao and Keishi Tajima</b>
Wr357	<i>Extracting Attributes and Synonymous Attributes from Online Encyclopedias</i> <b>Qian Liu, Dayong Wu, Yue Liu, and Xueqi Cheng</b>
Wr374	<i>Credibility Microscope: relating Web Page Credibility Evaluations to their Textual Content</i> <b>Wojciech Jaworski, Emilia Rejmund, and Adam Wierzbicki</b>
Wr382	<i>Harnessing Social Signals to Enhance a Search</i> <b>Ismail Badache and Mohand Boughanem</b>
Wr405	<i>Relevant Sources of Information are Not Necessarily Popular Ones</i> <b>Romain Noel, Alexandre Pauchet, Bruno Grilhaes, Nicolas Malandain, Laurent Vercouter, and Stephan Brunessaux</b>



Thursday, 14.08 - IAT

IAT SPS2: Special session on Cooperative Knowledge Discovery and Management

Chair: Dominik Ryżko and Henryk Rybiński

Part 1 – Room 114-115-116; 9:00-10:20

Ir305	<i>The Science of Security: Introduction from the Perspective of Secure Collaboration</i> <b>Munindar P. Singh</b>
Ir301	<i>Heterogeneous Multiagent Competitive Learning and Model Ontology Mapping</i> <b>Cyrus F. Nourani</b>

Part 2 - Room 114-115-116; 10:50-12:30

SB201	<i>Lightweight Reasoning with Incomplete and Inconsistent Information: A Case Study</i> <b>Łukasz Białek and Andrzej Szalas</b>
SB202	<i>Multi-agent Architecture for Real-time Big Data Processing</i> <b>Bartłomiej Twardowski and Dominik Ryżko</b>
SB203	<i>Default Logic Knowledge Management in a Multi-agent System</i> <b>Dominik Ryżko and Henryk Rybiński</b>
Ir239	<i>Content-based Feature Matching for Fragment Reassembly of Ceramic Reconstruction</i> <b>Shu-Yu Lin, Han-Jen Ku, Chao-Lung Ting, Ray-I Chang, Yu-Chun Wang, and Jan-Ming Ho</b>
Ir257	<i>A Matchmaking Algorithm for Resource Discovery in Multi-User Settings</i> <b>Kimberly García, Salma Perez, Sonia Mendoza, and Dominique Decouchant</b>

Thursday 14.08 - IAT

IAT RS8: Agent-Based Applications

Chair: Takao Terano

Room 114-115-116; 16:00-18:00

Ir277	<i>iHANDs: Intelligent Health Advising and Decision-Support Agent</i> <b>Brett Hannan, Xiaoqin Zhang, and Kristen Sethares</b>
Ir218	<i>A Personalized Support Agent for Depressed Patients: forecasting Patient Behavior Using a Mood and Coping Model</i> <b>Reinier Kop, Mark Hoogendoorn, and Michel C.A. Klein</b>
Ir240	<i>Agent-based Coalition Formation in a Co-modal Transport System</i> <b>Zhanjun Wang, Khaled Mesghouni, and Slim Hammadi</b>
Ir249	<i>Purchase Intention based Model for a Behavioural Simulation of Sale Space</i> <b>Antoine Sylvain, Arnaud Doniec, René Mandiau, and Stéphane Lecoeuche</b>
Ir302	<i>Heterarchical Interaction Model for Auction-based Multiagent Negotiation Mechanism</i> <b>Kazuto Sasai, Yukio-Pegio Gunji, and Tetsuo Kinoshita</b>
Ir304	<i>Does the Financial Contagion Happen in the Market Where the Selling of Assets on Margin is Active?</i> <b>Isao Yagi, Takanobu Mizuta, and Kiyoshi Izumi</b>

Thursday, 14.08 - BIH

BIH SPS8: hci4all - Special session on Advanced Methods of Interactive Data Mining for Personalized Medicine

Chair: Andreas Holzinger and Szymon Wilk

Part 1 – Room 207; 9:00-10:20

SB9201	<i>Characterization of Subgroup Patterns from Graphical Representation of Genomic Data</i> <b>Sangkyun Lee</b>
SB9202	<i>Moduli Spaces of Phylogenetic Trees Describing Tumor Evolutionary Patterns</i> <b>Sakellarios Zairis, Hossein Khiabani, Andrew J. Blumberg, and Raul Rabadan</b>
SB9203	<i>Characterizing Scales of Genetic Recombination and Antibiotic Resistance in Pathogenic Bacteria Using Topological Data Analysis</i> <b>Kevin J. Emmett and Raul Rabadan</b>
SB9204	<i>On Graph Extraction from Image Data</i> <b>Andreas Holzinger, Bernd Malle, and Nicola Giuliani</b>

Part 2 – Room 207; 10:50 – 12:30

SB9205	<i>On Terrain Coverage Optimization by Using a Network Approach for Universal Graph-based Data Mining and Knowledge Discovery</i> <b>Michael Preuß, Matthias Dehmer, Stefan Pickl, and Andreas Holzinger</b>
SB9207	<i>Entropy-Based Data Mining on the Example of Cardiac Arrhythmia Suppression</i> <b>Martin Bachler, Matthias Hörtenhuber, Christopher Mayer, Andreas Holzinger, and Siegfried Wassertheurer</b>
SB9209	<i>Sequential Classification Using Ontological Naive Bayes Classifier</i> <b>Tomasz Łukaszewski and Szymon Wilk</b>
SB9210	<i>Characterizing Web User Visual Gaze Patterns: A Graph Theory Inspired Approach</i> <b>Pablo Loyola and Juan D. Velásquez</b>

Thursday 14.08 - BIH

BIH RS5: Healthcare Technologies and Systems

Chair: TBA

Room 205; 10:50 – 12:30

B229	<i>A Computational Study of Robotic Therapy for Stroke Rehabilitation Based on Population Coding</i> <b>Yuki Ueyama</b>
B231	<i>Real Time SVM for Health Monitoring System</i> <b>Fahmi Ben Rejab, Kaouther Noura, and Abdelwahed Trabelsi</b>
B273	<i>Preliminary Experiment for the Health-care System Using a Simplified Electroencephalograph</i> <b>Shinichi Motomura, Muneaki Ohshima, and Ning Zhong</b>
B266	<i>Practicality of Employing E-Health Education to Increase Awareness among Egyptian Parents about Health Risks of Children Obesity</i> <b>Hamdy Radwan and Faten Hassan Abdelazeim</b>
BE6	<i>Local Binary Pattern Texture Descriptors for Medical Image Analysis</i> <b>Gerald Schaefer</b>

Thursday, 14.08 - BIH

BIH RS6: Brain Informatics and Data Management

Chair: Shinichi Motomura

Room 207; 16:00 – 18:00

B216	<i>Data-Brain Driven Documents Ranking for Constructing Brain Informatics Provenances</i> <b>Han Zhong, Jianhui Chen, Jian Han, and Ning Zhong</b>
B223	<i>A Brain Informatics Research Recommendation System</i> <b>Jian Han, Jianhui Chen, Han Zhong, and Ning Zhong</b>
B237	<i>Hadoop for EEG Storage and Processing: a Feasibility Study</i> <b>Ghita Berrada, Maurice van Keulen, and Mena B. Habib</b>
B241	<i>Supervised Learning for the Neurosurgery Intensive Care Unit Using Single-Layer Perceptron Classifiers</i> <b>Chad A. Mello, Rory Lewis, Amy Brooks-Kayal, Jessica Carlsen, Heidi Grabenstatter, and Andrew M. White</b>
B251	<i>Data and Information Granule Rules Retrieval: Differences of Activation in Parietal Cortex</i> <b>Wei Zhao, Hongyu Li, Gue Gu, Xiuzhen Wang, Guohui Zhou, Jiaxin Cui, and Weiquan Gu</b>
B272	<i>Integrating Brain Big Data with Depression Diagnostic Information by DataBrain Method</i> <b>Taihei Kotake, Jianhui Chen, Ning Zhong, Han Zhong, Jian Han, Zhisheng Huang, and Yang Yang</b>

Thursday 14.08 - AMT

AMT RS4: Security and Privacy in Ubiquitous Environment

Chair: Son Thanh Vuong

Room 205; 9:00-10:20

A230	<i>A Scheme for Robust Biometric Watermarking in Web Databases for Ownership Proof with Identification</i> <b>Vidhi Khanduja, Shampa Chakraverty, Om Prakash Verma, and Neha Singh</b>
A245	<i>An Intelligent Multi-agent based Detection Framework for Classification of Android Malware</i> <b>Mohammed Alam and Son Thanh Vuong</b>
A262	<i>Outlier Analysis Using Lattice of Contiguous Subspaces</i> <b>Vineet Joshi and Raj Bhatnagar</b>
A263	<i>eSelect: Effective Subspace Selection for Detection of Anomalies</i> <b>Vineet Joshi and Raj Bhatnagar</b>

AMT RS5: Active Media Engineering

Chair: Shampa Chakraverty

Room 214-215-216; 16:00-18:00

A218	<i>Ryry: A Real-Time Score-Following Automatic Accompaniment Playback System Capable of Real Performances with Errors, Repeats, and Jumps</i> <b>Shinji Sako, Ryuichi Yamamoto, and Tadashi Kitamura</b>
A220	<i>Towards Modular, Notification-Centric and Ambient Mobile Communication: User Study Supporting a New Interaction Model for Mobile Computing</i> <b>Jonas Elslander and Katsumi Tanaka</b>
A234	<i>Body Posture Recognition as a Discovery Problem: A Semantic-Based Framework</i> <b>Michele Ruta, Floriano Scioscia, Maria di Summa, Saverio Ieva, Eugenio Di Sciascio, and Marco Sacco</b>
A244	<i>Literal Node Matching based on Image Features toward Linked Data Integration</i> <b>Takahiro Kawamura, Shinichi Nagano, and Akihiko Ohsuga</b>
A272	<i>Audio Features in Music Information Retrieval</i> <b>Daniel Grzywczak and Grzegorz Gwardys</b>
A274	<i>Model of Auditory Filters and MPEG-7 Descriptors in Sound Recognition</i> <b>Aneta Świercz and Jan Żera</b>